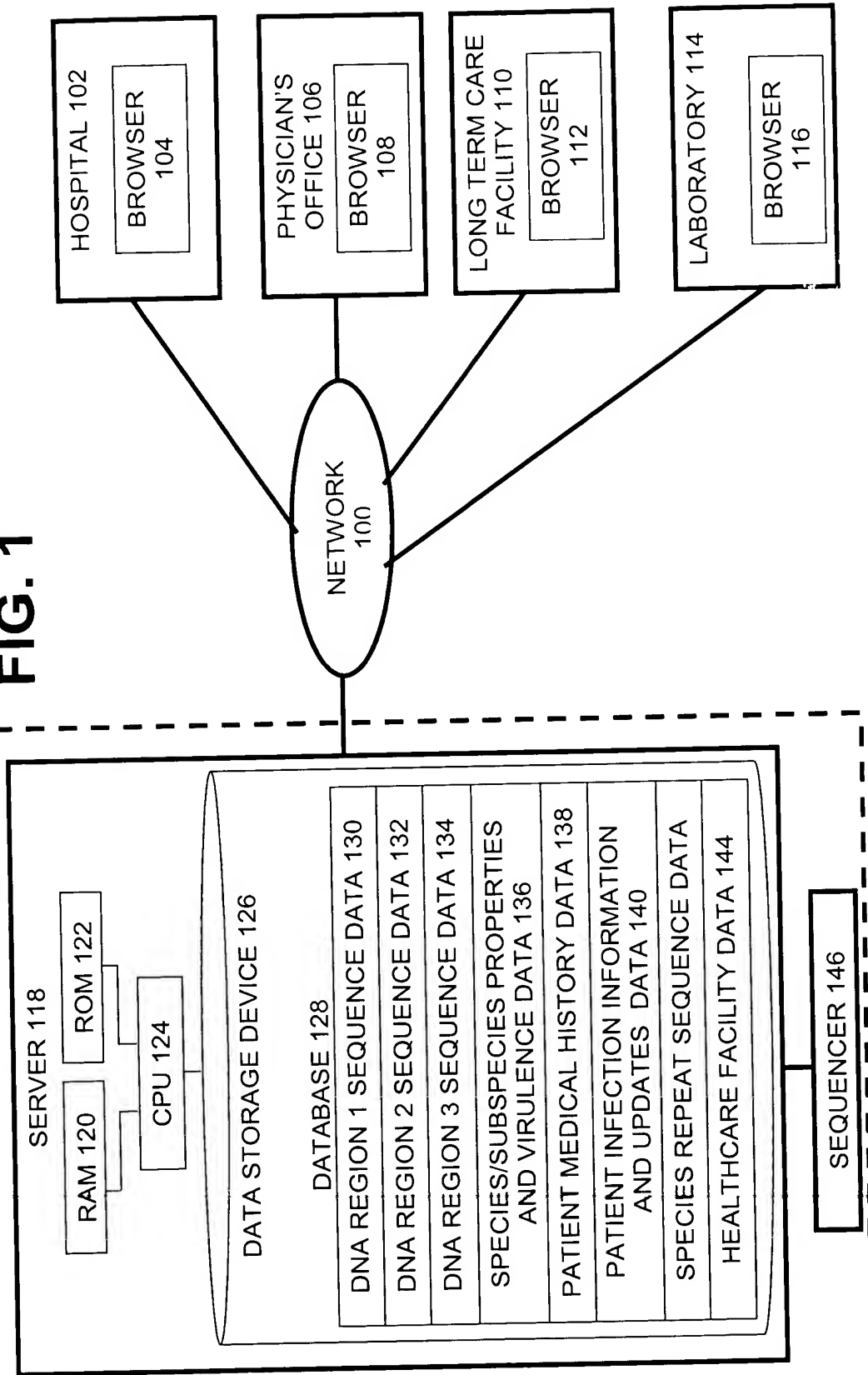


INFECTION CONTROL FACILITY  
148

FIG. 1



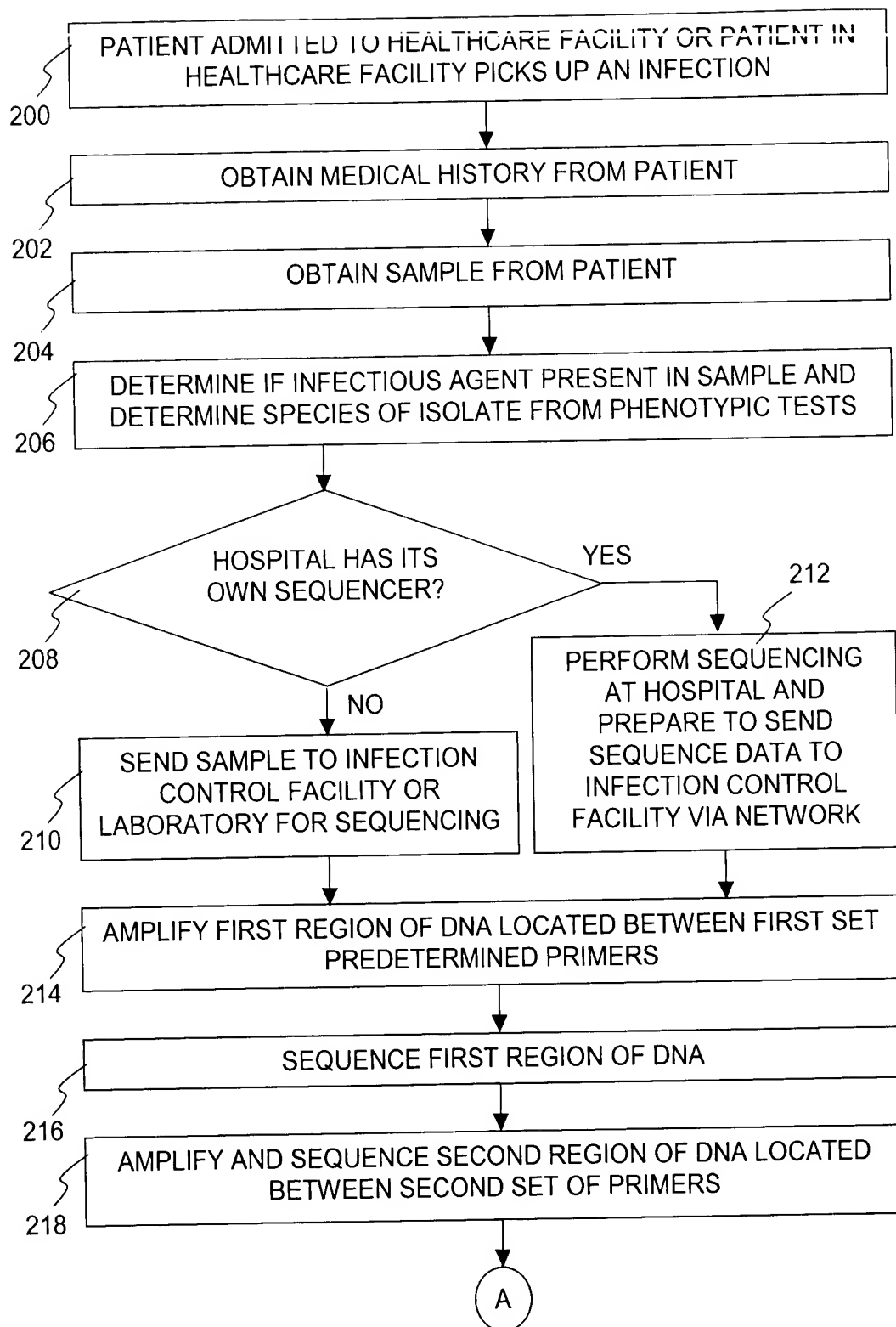
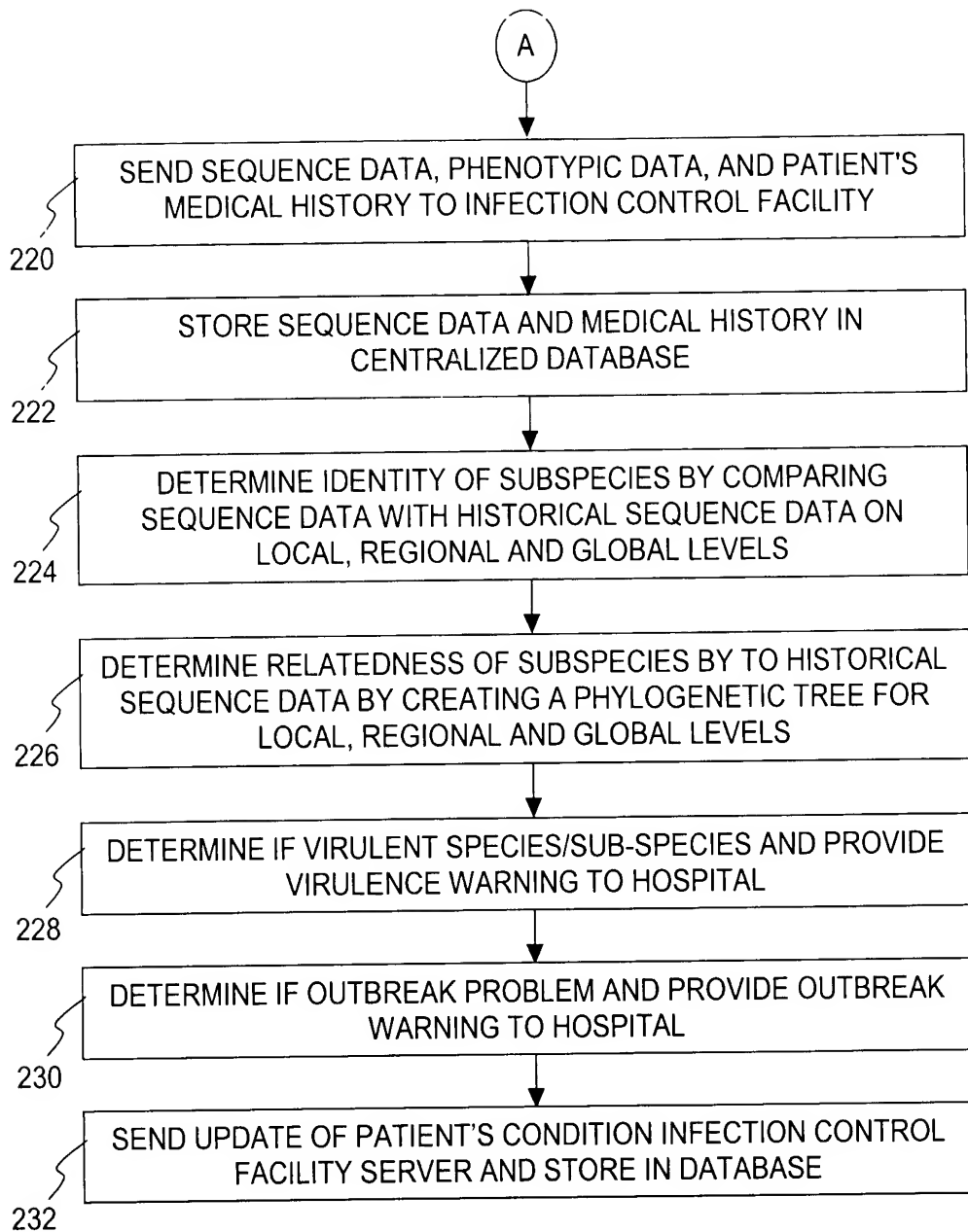
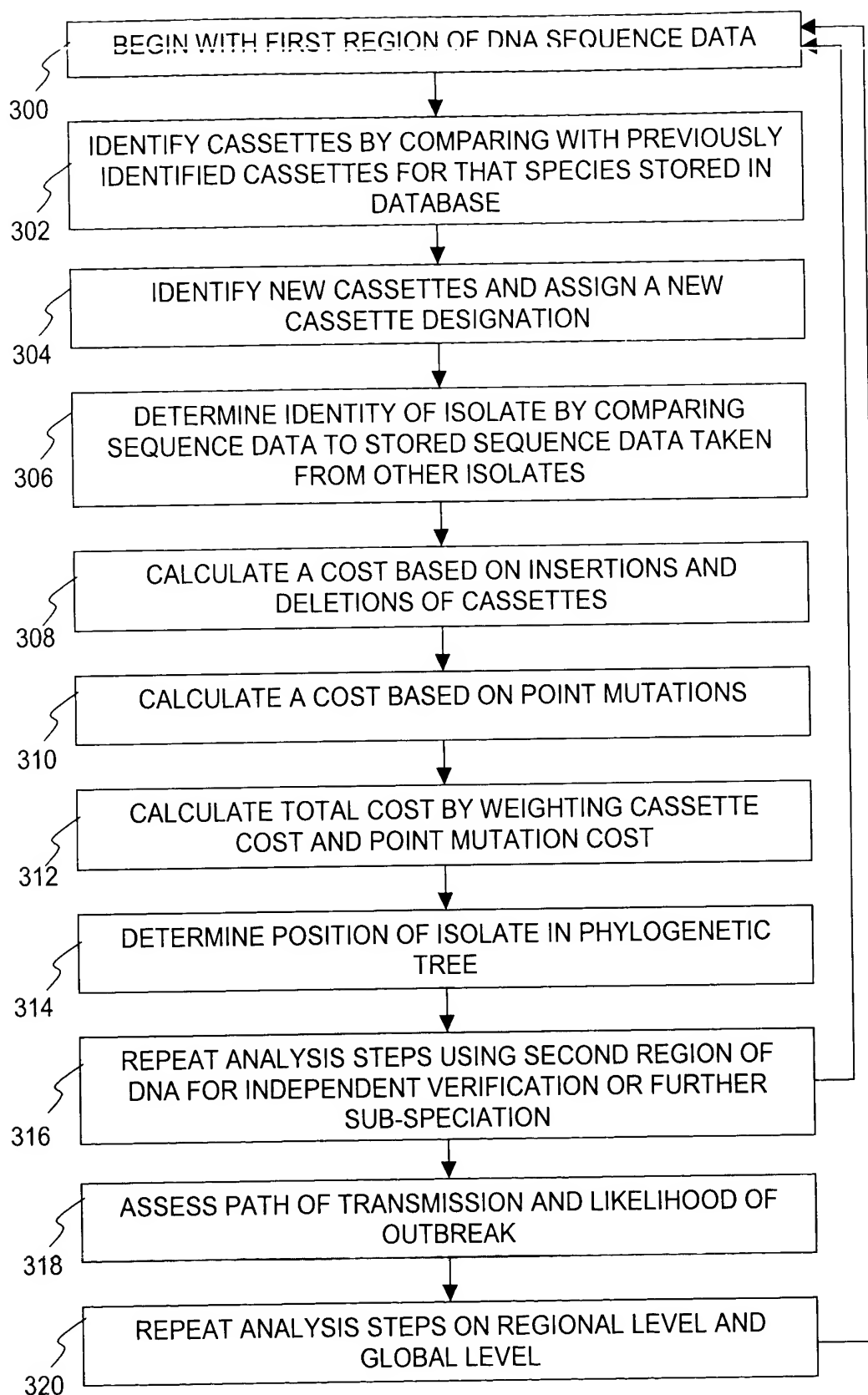


FIG. 2A



**FIG. 2B**



**FIG. 3**

400

T	GAGGAAGACAACAAAAACCTGGT
A	AAAGAAGACAACAAAAACCTGGC
B	AAAGAAGACAACAAAAACCTGGT
E	AAAGAAGACAACAACAAACCTGGT
G	AAAGAAGACAACAACAGCCTGGT
D	AAAGAAGACAACAACAAACCTGGC
J	AAAGAAGACGGCAACAAACCTGGC
K	AAAGAAGACGGCAACAAACCTGGT
M	AAAGAAGACGGCAACAAGCCTGGT

FIG. 4A

404

GAGGAAGACAACAAAAACCTGGTAAAGAAGACGGCAACAAACCTGGCAAAGAA  
 GACGGCAACAAGCCTGGTAAAGAAGACAACAACAAACCTGGTAAAGAAGACGGC  
 AACAAAGCCTGGTAAAGAAGACAACAACAAACCTGGCAAAGAAGACGGCAACAAG  
 CCTGGTAAAGAAGACAACAACAGCCTGGTAAAGAAGACGGCAACAAGCCTGGT  
 AAAGAAGACGGCAACAAACCTGGT

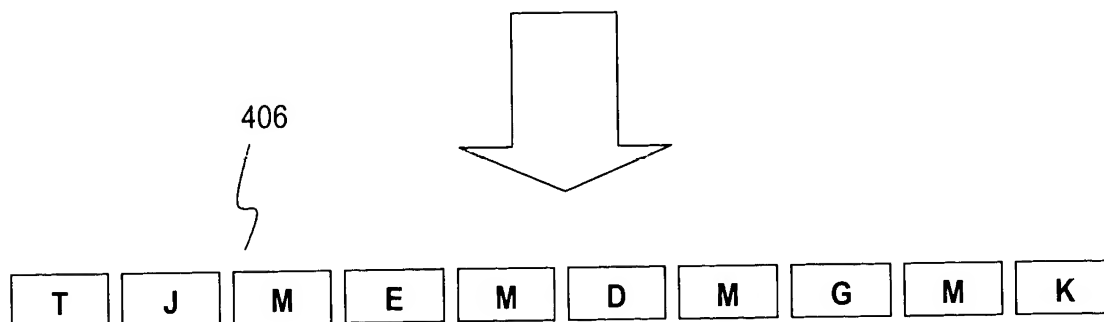


FIG. 4B

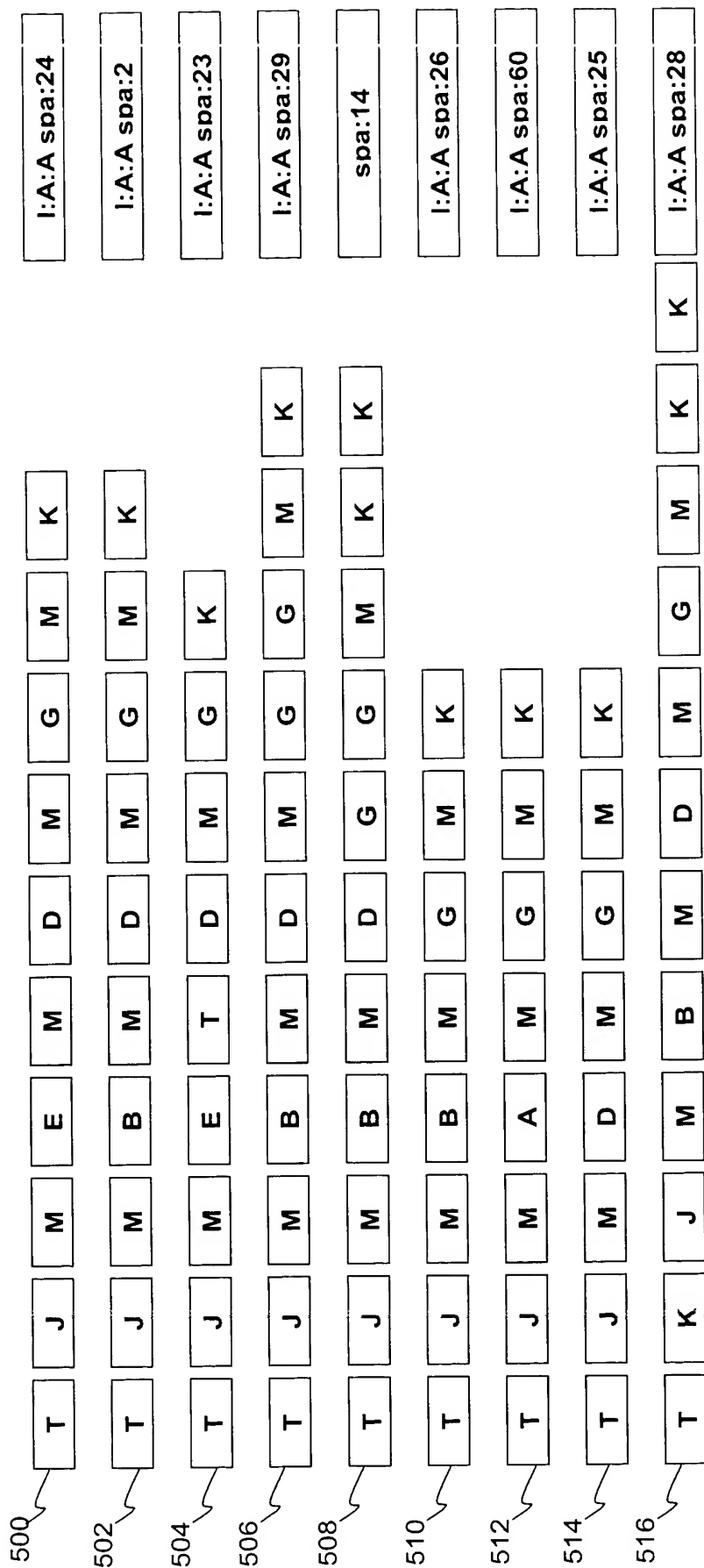
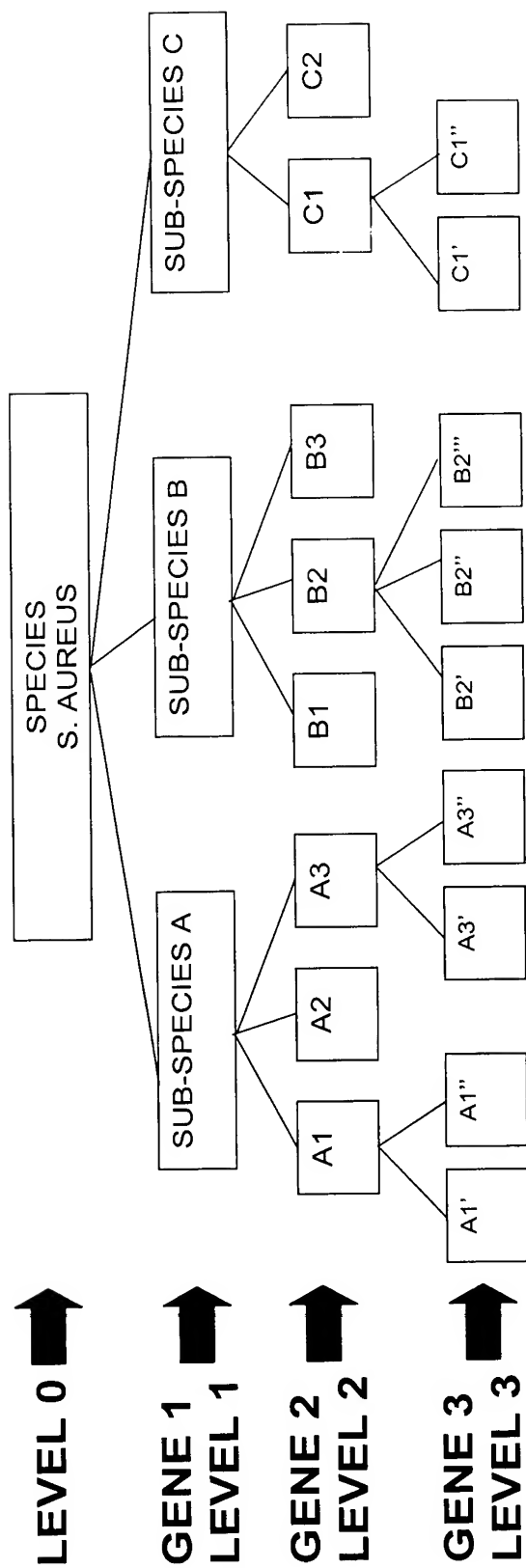


FIG. 5



**FIG. 6**

SPECIES	S. aureus	S. aureus	
SUBSPECIES	A1'	B7"	
SEQ REGION 1	ATTCATAGAT...		
SEQ REGION 2	CGTACTATCC...		
SEQ REGION 3	ATTCGTTATA...		
REGION 1 PRIMERS			
REGION 2 PRIMERS			
REGION 3 PRIMERS			
REPEATS REGION 1	TKJMP..		
REPEATS REGION 2	ABABA		
REPEATS REGION 3	TYYT		
DATE	June 5, 2000		
PATIENT MEDICAL HISTORY	Hospitalized in New York Hospital, June 2000 for 3 weeks, heart surgery...		
PATIENT MEDICAL UPDATE INFO	Patient hospitalized 3 weeks for infection and released....	Patient died due to infection after two weeks...	
LOCATION	Mt. Sinai Hospital, Toronto, Burn Ward	New York City Hospital, ICU	
PHAGE TYPE			

**FIG. 7A**

S. AUREUS			
SEQ REGION	REPEAT 1	REPEAT 2	REPEAT 3
PROTEIN A X <sub>R</sub>	AATTCGCCTAGG..	AATTCCCCTAGG..	TAGGCCGT...
	..		
REGION 2	TTAAAGGCCTGA..	GGTTCCAATAAT..	GGTTAACC..
REGION 3			

**FIG. 7B**



SEO ID NO 37

TTTTCTTGGCAATTTTGGTCGTATTATCCGCTTTTTTACTGTTCCCTGACGATTCTTGATTTGTCTGTATCTGTTT  
AGTTGCTTGGTTTTCTGCTACTGATTCTTTGTTTGAAGCTTTGGCAGAGGGTTTGAATTACTTTGAGCGTCAT  
TAGGATCTTGATTAGACTCTACCGCGTAAATGACAGAATTCTGGCCTTTGCTTTGGCTACTTTTCGTTTACAGTGCTT  
GGGGTGCTACTCTCACTTGTATTGTTGGTTGCGCTGGTTGACTTGAAGCACTACTTTCGCTGGTACTACTTGT  
ACTGGTTGACTTGGTGTGTTGCTTTCATTTGTATTGCTTGTTCACTTGTCTGACTTGGAGTACTACTTTCGCTGG  
TACTACTGGTTTCGCTGGTTGTGCTTGGCGTGTTGCTTTCACTCGTACTACTGCTCTCACTTGTCTGCTTGGCGTG  
CTGCTTTCGCTTGTATTACTGGTTTCACTTGTCTGCTTGGAGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGT  
CGTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTTTCACTTGTCTGCTTGGAGTACTACTTTCGCTTGTATTAC  
TGGTTTCGCTAGTTGACTTGGTGTGTTGCTTTCATTTGTATTGCTTGTTCACTTGTCTGCTTGGAGTGCTGCTT  
TCGCTTGTATTACTGGTTTACTGGTTGACTTGGTGTATTGCTTTCATTTGTATTGCTTGTTCCTTGTGTTACT  
TGAGGTGCTGCTTTCGCTTGTATTACTGGTTTCACTGGTTGTGCTTGGAGTGCTGCTTTCGCTTGTGTTACTAGTTG  
TCTCTGTTGATTTTTCACTAACAGAAGTAACGCGGTTTTATGGTTTTGTTTAAATTGATTAATACGCTTTTGTGCA  
TCTGCAGGCGTTTTAAAGCCACCAAGTGTTGGCTCTAATAATTCTTCATCTGACCAAGCAAGCAGTTGTTGTAACG  
CTTAGAGCTTCCTTCGCCAGTTGTTGTATCTATTAAGGCTTCTTGCATGGCTTGCCAAGAGTCTTTGGT

Fig. 8A

SEO ID NO 38

GTGCTTGGGGTGCTACTCTCACTTGTATTGTTGGTTGCGCTGGTT SEQ ID NO 24  
GTACTTGAAGCACTACTTTCGCTGGTACTACTTGTCTTACTGGTT SEQ ID NO 25  
GTACTTGGTGTGTTGCTTTCATTTGTATTGCTTGTTCCTTGTGTC SEQ ID NO 26  
GTACTTGAAGTACTACTTTCGCTGGTACTACTGTTTCGCTGGTT SEQ ID NO 27  
GTGCTTGGCGTGTTGCTTTCCTCTGCTACTACTGCTCTCACTTGTGTC SEQ ID NO 28  
GTGCTTGGCGTGCTGCTTTCGCTTGTATTACTGGTTTCACTTGTGTC SEQ ID NO 29  
GTGCTTGAAGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTGTC SEQ ID NO 30  
GTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTTTCCTTGTGTC SEQ ID NO 31  
GTGCTTGAAGTACTACTTTCGCTTGTATTACTGGTTTTCGCTAGTT SEQ ID NO 32  
GTACTTGGTGTGTTGCTTTCATTTGTATTGCTTGTTCCTTGTGTC  
GTGCTTGAAGTGCTGCTTTCGCTTGTATTACTGGTTTACTGGTT SEQ ID NO 33  
GTACTTGGTGTATTGCTTTCATTTGTATTGCTTGTTCCTTGTGTC SEQ ID NO 34  
GTACTTGAAGTGCTGCTTTCGCTTGTATTACTGGTTTCACTGGTT SEQ ID NO 35  
GTGCTTGAAGTGCTGCTTTCGCTTGTGTTACTAGTTGTCTCTGTT SEQ ID NO 36

SEQ ID NO. 23

Fig. 8B

MTEFWPLLWLLSFT  
VLGVLLSLVLLVALV SEQ ID NO 39  
VLEALLSLVLLVLLV SEQ ID NO 40  
**VLGVLLSFVLLVSLV** SEQ ID NO 41  
VLEVLLSLVLLVSLV SEQ ID NO 42  
VLGVLLSLVLLVSLV SEQ ID NO 43  
VLGVLLSLVLLVSLV  
VLEVLLSLVLLVSLV SEQ ID NO 44  
VLGVLLSLVLLVSLV SEQ ID NO 45  
VLGVLLSLVLLVSLV  
VLGVLLSFVLLVSLV  
VLEVLLSLVLLVLLV SEQ ID NO 46  
VLGVLLSFVLLVSLV SEQ ID NO 47  
**VLEVLLSLVLLVSLV**  
VLEVLLSLVLLVSV SEQ ID NO 48  
DFSTNRSNAVFMVCVN

Fig. 8C

SEQ ID NO 51

ATGTTCCAGCCCCTATTAGACGCTTATACAGACAGCACCCGTTTAGATGAAACCGATTATAAGCCCCCATTTAAATAT  
AGCCCTAGCCAATTGGTGGCCTTTGGATAAAAGAGAAAGCAAAGGGTTTAGGCGTTTATCTTGATTTTCATCTTAA  
GCCAACGCTACACAATCACCTCCACCAAAACCCTAACGAACCTCCGATCTGTCTTTGGCAGTCTATTGGATCA  
GCCAGAAAAATCCTATCCTATCAAAACACTAAAAGGGTGTTTACACCGGTGAAAATGAAGTCCCTAATTTCAATCT  
CTTTGATTACGCCATAGGCTTTGATGAATTGGACTTTAGAGATCGTTATTTGAGAATGCCTTTATATTACGCTAGCT  
TGCATTATAAAGCCGAGAGCGTGAATGACACCACCGCGCCCTACAACTCAAAGACAACAGCCTTTATGCTTTAAAA  
AAGCCCTCCCATCATTTTAAAGAAAACCACCTAATTTATGCGCAGTAGTGAATGATGAGAGCGATCCTTTGAAAAG  
AGGGTTTGGCAGCTTTGTGCGGAGCAACCCTAACGCTCCTATAAGGAACGCTTTCTATGACGCTTTAAATTCTATTG  
AGCCAGTTACTGGGGGAGGGAGCGTGAAAAACACTTTAGGCTATAACGTCAAAAACAAGAGCGAGTTTAAAGCCAA  
TACAAATTCAATCTGTGTTTTGAAAACACTCAAGGCTATGGCTATGTAAGTAAAAAATCATTGACGCTTATTTTCA  
CCACACCATTTCCCATTTATTGGGGGAGTCCTAGCGTGGCGAAAGACTTTAACCTAAGAGTTTTGTGAACGTTTGTG  
ATTTTAAAAACCTTTGATGAAGCGATTGATTACGTGAGATACTTGCACACGCACCCAAACGCTTATTACACATGCTC  
TATGAAAACCTTTTAAACACCTTGATGGGAAAGCTTACTTTACCATAAATTTGAGTTTTAAAAAATCCTAGATTT  
TTTTAAAACGATTTTAGAAAACGACACGATCTATCACGATAACCTTTTCATTTCTATCGCGATTGTAATGAGCCTT  
TAGTAGCTATTGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGAT  
GATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAATTATGATGATTTGAGGGTTAA  
TTATGATCGCCTTTTACAAAACGCTTCGCCTTTATTAGAACTCTCTCAAAACACCACTTTTAAATCTATCGCAAAG  
CCTATCAAAAATCCTTACCTTTGTTGCGCACCATAAGGAGATGGGTAAAAAATAAA

Fig. 9A

SEQ ID NO 52

SEQ ID NO 59

GATGATTTGAGGGTTAATTAT SEQ ID NO 50  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT  
GATGATTTGAGGGTTAATTAT

Fig. 9B

DLRVNYD SEQ ID NO 53  
DLRVNYD  
DLRVNYD  
DLRVNYD  
DLRVNYD  
DLRVNYD  
DLRVNYD

Fig. 9C



AATAATCAGAATGTTCTACGTTATGGTGGTGGAAGTGCTGATGGTGATTCAGCAGTAAATCCGAAAGACCCAACTCC  
 AGGGCCCGCGGTTGAC  
 CCAGAACCAAGTCCAGACCCAGAACCAGAACCAACG  
 CCAGATCCAGAACCAAGTCCAGACCCAGAACCGGAA  
 CCAAGCCCAGACCCGGATCCG  
 GATTCGGATTCAGACAGT      SEQ ID NO 55  
 GACTCAGGCTCAGACAGC      SEQ ID NO 56  
 GACTCAGGTTTCAATAGC      SEQ ID NO 57  
 GACTCAGAATCAGATAGC      SEQ ID NO 58  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC      SEQ ID NO 59  
 GACTCAGAATCAGATAGC  
 GATTCAGAATCAGATAGC      SEQ ID NO 60  
 GACTCAGATTCAGATAGC      SEQ ID NO 61  
 GATTCAGATTCAGATAGC      SEQ ID NO 62  
 GATTCAGATTCAGATAGC  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC  
 GACTCAGAATCAGATAGC  
 GACTCAGAATCAGATAGT      SEQ ID NO 63  
 GAGTCAGATTCAGACAGT      SEQ ID NO 64  
 GACTCGGACTCAGACAGT      SEQ ID NO 65  
 GATTCAGACTCAGATAGC      SEQ ID NO 66  
 GATTCAGACTCAGATAGC  
 GATTCAGATTCAGACAGC  
 GACTCAGATTCAGACAGC      SEQ ID NO 67  
 GACTCAGACTCAGATAGC      SEQ ID NO 68  
 GACTCAGACTCAGACAGC      SEQ ID NO 69  
 GACTCAGATTCAGATAGC  
 GATTCAGACTCAGACAGC      SEQ ID NO 70  
 GACTCAGACTCAGACAGC  
 GACTCAGACTCAGATAGC  
 GACTCAGATTCAGATAGC  
 GATTCAGACTCAGACAGC  
 GACTCAGATTCAGATAGC      SEQ ID NO 71  
 GATTCAGATTCAGACAGC  
 GACTCAGACTCGGATAGC      SEQ ID NO 72  
 GATTCAGATTCAGATAGC  
 GATTCGGATTCAGACAGT  
 GATTCAGATTCAGACAGC  
 GACTCAGACTCGGATAGC  
 GACTCAGACTCAGACAGC  
 GATTCAGACTCAGATAGC  
 GACTCAGACTCGGATAGC  
 GACTCGGATTCAGATAGC      SEQ ID NO 73  
 GACTCAGACTCAGATAGT      SEQ ID NO 74  
 GACTCCGATTCAAGAGTT      SEQ ID NO 75  
 ACACCACCAATTAATGAACAGAAAGCACCATCAAAATCCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA  
 ACACAAAATGATGCTTTACCA

Fig. 10B

Repeat pattern isolate 1:

1-2-3-4-1-5-4-6-7-8-8-1-5-4-9-10-11-12-12-5-13-14-15-7-16-15-14-7-16-7-17-5-18-8-1-5-18-15-12-18-19-20-21

Fig. 10E

TCAGCAGTAAATCCGAAAGACCCAACTCCAGGGCCGCCGTTGACCCAGAACCAAGTCCAGACCCAGAACCCAGAACC  
AACGCCAGATCCAGAACCAAGTCCAGACCCAGAACCGGAACCAAGCCCAGACCCGGATCCG

GATTCCGGATTCAGACAGT

GACTCAGGCTCAGACAGC

GACTCAGGTTCAGATAGC

GACTCAGAATCAGATAGC

GATTCCGGATTCAGACAGT

GATTCAGATTCAGACAGC

GACTCAGAATCAGATAGC

GATTCAGAATCAGATAGC

GACTCAGATTCAGATAGC

GATTCAGATTCAGATAGC

GATTCAGAATCAGATAGC

GATTCCGGATTCAGACAGT

GATTCAGATTCAGACAGC

GACTCAGAATCAGATAGC

GACTCAGAATCAGATAGT

GAGTCAGATTCAGACAGT

GACTCCGACTCAGACAGT

GATTCAGACTCAGATAGC

GATTCAGACTCAGATAGC

GATTCAGACTCAGACAGC

GATTCAGATTCAGACAGC

GACTCAGAATCAGACAGC

SEQ ID NO 79

GACTCAGACTCAGATAGC

GACTCAGACTCAGACAGC

GACTCAGATTCAGATAGC

GATTCAGACTCAGACAGC

GACTCAGACTCAGACAGC

GACTCAGACTCAGATAGC

GATTCAGACTCAGACAGC

GACTCAGATTCAGATAGC

GATTCCGACTCAGACAGC

GATTCAGATTCAGACAGC

GACTCAGACTCGGATAGC

GATTCAGATTCAGACAGC

GACTCAGACTCGGATAGC

GACTCCGATTCAGATAGT

SEQ ID NO 80

GACTCCGATTCAGAGATT

ACACCACCAAATAATGAACAGAAAGCACCATCAAATCCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA  
ACACAAAAGTGATGCTTTACCAGAAACAGGAGATAAGAGCGAAAACACAAATGCAACTTTATTTGGTGCAATG

Fig. 10C

Repeat pattern isolate 2:

1-2-3-4-1-5-4-6-7-8-6-1-5-4-9-10-11-12-12-16-5-22-14-15-7-16-15-14-16-7-17-5-18-5-18-23-21

Fig. 10F